```
السؤال الثالث: ضع خط نحت الاجابة الصحيحة للعبارات الآتية:
      (۲۰ درجات)
                                                                     ١- من مواصفات التقرير الجيد ان يكون:
                       (دقيق ـ مقنع ـ موضوعي ـ
          كل ما سبق)
     ٢-لعلاج الشائعات: (المنطقية في التعامل مع الأخبار - تأكد من صحه الخبر و مصدره - التوعية - كل ما سبق)
               ٣- من الأهداف العامة التي تسعي السلامة والصحة المهنية لتحقيقها : (حماية العنصر البشري _ توفير وتنفيذ
                                         كافة شروط السلامة . الحفاظ على العنصر المادي . كل ما سبق )
       عَـ في معمل فحص الطفيليات الطبية لابد من توفير: (مرشحات تنقيه الهواء _ مصادر تهوية _ طفاية حريق _ كل ما سبق)
   ٥.حدد الجلس الاعلى للجامعات الا تزيد نسبة الاقتباس في البحث العلمي عن: (٤٥٪ _ ٧.٥٥ _ ٧.٢٥ _ ٧.٢٠
                 ٦-من الأداب العامة لمزاولة مهنة المختبرات الطبية: (التكبر - الإفشاء - المسؤولية كل ما سبق)
                                                              ٧ يجب ان تحتوى شنطة الاسعافات الأولية على:
        (مطهرات _ منبهات _ مسكنات _ كل ما سبق)
                        ٨ من نفايات المعامل (اطباق مزارع بكتيرية - نفايات كيمانية - بقايا احياء - كل ما سبق)
                            ٩ من عقبات تطبيق اخلاقيات المهنة: (الأهمال التواكل غياب القدوة الحسنة كل ما سبق)
      ١٠ التبليغ خلال ٤٨ ساعة في حالة اكتشاف تعاليل ايجابية لمرض: (الجرب – شلل الأطفال _ الكوليرا. كل ما سبق)
                          ١١ـمن يعد ميثاق اخلاقيات المهنة ؟ (رئيس المؤسسة فريق عمل المؤسسة - لجنة - كل ما سبق)
                    17 .....هي الجرعة القاتلة لنصف عدد حيوانات التجارب . (LD50 _ LC50 _ LEL)
١٣- المسئول عن إنجاز التجارب العملية المقررة بالمناهج الدراسية: (محضر المختبر - المعلم - المشرف - كل ما سبق)
                                         ١٤ ـ من انواع البلاجياريزم (النسخ – الترقيع – اعادة الصياغة –كل ما سبق)
 ١٥. قبل تشغيل جهاز جديد أو استعمال مادة يجب قراءة (نشرة التشغيل — نشرة الأمان _ العلامات الارشادية — كل ما سبق)
                 ١٦ من مجالات الاخلاقيات البيولوجية (الاستنساخ القرصنة البيولوجية -سرقة الجينات - كل ما سبق)
                      ١٧ ـ من الاخلاقيات المهنيه المشتركه بين المهن (الضمير المهني الاهمال -عدم تحمل المسئولية - كل ما سبق)
                                   ١٨ الرعاف هو (نزيف دموي من الانف -رعشة الجسم صدمة عصبية كل ما سبق)
  ١٩________19
                                     (الشائعة السريعة - الشائعة البطيئة - الشائعة الاستطلاعية كل ما سبق)
       ٢٠ من اشتراطات انشاء مختبرات العلوم ( ملائمة المساحة مع عدد المستخدمين ـ توافر بايين ـ لها إضاءة وتهوية جيدة ـ كل ما سبق)
                                                                                          انتهت الأسئلة
                                                  مع تمنياتي بالتفوق
            أ.د. ناصر الشيمي
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الزمن: ساعتان ۳۱ غسطس ۲۰۲۵

الاجابة في نفس ورقة الاسئلة





كلية العلوم

امتحان نهاية الفصل الدراسي الصيفي : جميع المستويات المقرر: أخلاقيات المهنة والسلامة المهنية رقم المقرر ورمزه: F300

أجب عن الاسئلة الآتية:

(۲۰ درجة)	السؤال الاول: ضع علامة 🗸 او X للعبارات الآتية:
ممل وعدم الاستهانة باهميتها 🧪 💮	١ ضرورة استخدام معدات الوقاية والسلامة الشخصية بعد اله
سسة إلي الالتزام بها اثناء ممارسة العمل. ()	٢- الميثَّاق الأخلاقي هو مجموعة من القيم العليا التي تسعي المؤ
	٣_يشترط في الاقتباس المباشر كتابه اسم مؤلف النص المنقول
ين يقدمه فرد او مجموعه.	٤ التقرير هو عرض كتابي او شفوي منهجي مركز لموضوع مع
قتصادية واتاحة فرص عمل وصناعات جديدة.	٥_يؤدي النهوض بالملكية الفكرية الي دفع عجلة التنمية الا
السائلة القابلة للاشتعال مثل الكحول والمذيبات. ()	٦ تستخدم طفاية الرغاوى لإطفاء الحرائق الناتجة عن المواد
	٧_ تدخل السلامة والصحة المهنية في كل مجالات الحياة
ور العام بقواعد أخلاقية تسهل التعامل. ()	٨ من خصائص الميثاق الأخلاقي للمهنة حماية المهنة والجمه
م بكثرة النشاطات البيتية . ()	٩ من اخلاقيات مهنة التعليم المفضلة من قبل الطلبة ارهاقه
	١٠عند تغفيف الأحماض المركزة يجب إضافة الحمض للماء
	١١ ـ الالتزام بمعايير الجودة من الأخلاقيات الهامة لأي مهنة
	١٢ توفير طفاية حريق وجهاز كاشف الحرائق من شروط الام
انونية الحاكمة للعمل. ()	١٣_أخلاقيات المهنة تعني فقط الالتزام بالقوانين و القواعد الق
()	١٤ العمل يقتضي الاتقان بينما المهنة قد يتولاها غير المتقن.
التواصل مع طلابه بمختلف مستوياتهم الفكرية وتقربه منهم. ()	١٥ من اهم اخلاقيات المهنة التي يجب ان تتوفر في الاستاذ او المعلم
ة المواقف والأحداث. ()	١٦ ـ من صفات الشخصية السوية عدم الاتزان الانفعالي في مواجه
ل يترتب عليه تقديم خدمه ذات مستوي متواضع علي اقل تقدير. ()	١٧ الحصول علي عمل بأتعاب متدنية للغاية تحت ضغط التنافس
<i>ي</i> بين غالبية الناس كنتيجة لعدالة التعامل. ()	١٨ الالتزام بأخلاقيات العمل يسهم في شيوع الرضا الاجتماء
كانت نباتية او حيوانية المعرضة للانقراض.()	١٩_ يفيد الاستنساخ في المحافظة على السلالات النادرة سواء
يانات. ()	٢٠_ من اخلاقيات البحث العلمي الصدق والأمانة في جميع الب
	r
ومة المهنية الآتية: (١٠درجات	السؤال الثاني: اكتب مدلول علامات التحذير والسلا

28) How does learning by trial and error differ from operant conditioning?

- a) only trial and error involves specific animal responses
- b) only operant conditioning involves specific responses before rewards
- c) trial and error has a more obvious ethological factor

29) The egg-rolling behavior of the graylag goose is considered adaptive because:

- a) it helps the mother retrieve lost eggs
- b) it increases the number of offspring
- c) it evolved through a long evolutionary history

30) Imo, the Japanese macaque on Koshima Island used water to separate grains from sand:

- a) through rational imitation
- b) through operant conditioning
- c) through insight learning

Part II. Answer only four of the following questions:

(20 marks)

- 1) Mention the types of human pheromones, providing specific examples for each type.
- 2) Discuss the Vandenbergh effect and compare it with the Bruce effect.
- 3) Insects utilize various releaser pheromones for communication. Identify the different types of these pheromones and provide a detailed explanation of alarm pheromones and social pheromones.
- 4) Explain the process of operant conditioning in animals, including how it is considered a better process for learning.
- 5) Identify the primary characteristics of innate behavior and provide a detailed explanation of two of these characteristics.

End of questions

Examiner: Prof. Medhat M. Sadek

20) Which of the following is a consequence of self-recognition?

- a) self-awareness, empathy, mental time travel
- b) better hunting skills, nest building, and hunting
- c) faster escape from enemies

21) The brain region responsible for recognizing others is:

- a) right prefrontal cortex
- b) left prefrontal cortex
- c) cerebellum

22) Children under 2.5–3 years are unable to recognize themselves in a mirror because:

- a) their left prefrontal cortex is not developed
- b) their right prefrontal cortex is not fully developed
- c) they lack visual ability

23) What type of learning was Wolfgang Köhler a pioneer in studying?

- a) operant conditioning
- b) social learning
- c) insight learning

24) Arithmetic abilities were discovered in:

- a) only primates
- b) only mammals
- c) certain mammals, birds and invertebrates

25) Which pheromones can function without the sender and receiver being present simultaneously?

- a) alarm and marking pheromones
- b) marking and trail pheromones
- c) trail and aggregation pheromones

26) How might the axillary odor of a breastfeeding mother function?

- a) as a releaser pheromone
- b) as a primer pheromone
- c) as a modulator pheromone

27) How is a brown, rough, glassy bottle perceived by a male Australian jewel beetle?

- a) as a conditioned stimulus
- b) as a normal releaser
- c) as a supernormal releaser

11) In the mirror test, marks are placed on:

- a) body parts visible without a mirror
- b) body parts that can only seen by a mirror
- c) ears and teeth

12) The horse, Clever Hans, was able to:

- a) count and calculate
- b) responded to changes in human faces
- c) read numbers

13) Hexadecanal affects brain regions linked to:

- a) motor coordination
- b) social cue perception
- c) auditory cortex

14) Arithmetic ability in animals can include:

- a) simple counting, comparing quantities, arranging numbers
- b) only memorizing numbers
- c) solving algebraic equations

15) In humans, hexadecanal is secreted mainly by:

- a) salivary glands
- b) skin glands
- c) both salivary and skin glands

16) The "Clever Hans Effect" refers to:

- a) arithmetic ability in horses
- b) unintentional communication between researcher and subject
- c) a way to teach animals mathematics

17) The amount of hexadecanal produced by babies is:

- a) smaller than the amount produced by adults
- b) equal to the amount produced by adults
- c) larger than the amount produced by adults

18) When chimpanzees arrange numbers, they do so:

- a) in descending order only
- b) in ascending order
- c) randomly

19) Animals that passed the mirror test include:

- a) dogs and cats
- b) dolphins, elephants and magpies
- c) horses and chimpanzees



Final Exam. for Science Students Animal Behavior (313 Z)

Summer semester, 2025 كلية العلوم جاهعة اسيوط جاهعة اسيوط



		The exam comes on four pages
		Total: 50 marks
art I. Choose the correct ans	wer and transfer its num	
notebook:		(30 marks)
1) Which animals can comb	oine two short sticks to cr	eate a longer one?
a) elephants	b) macaque monkeys	c) chimpanzees
2) What does comparative j	osychology primarily stud	ly?
a) behavior	b) adaptive features	c) mental abilities
3) What is the focus of com	parative psychology?	
a) behavior	b) ethology	c) sociobiology
4) What can trial-and-error	· learning experiments as	sess in animals?
a) ability to learn		c) adaptive behaviors
5) The gland that contribute	es to the human odor fing	erprint is:
a) mammary gland	b) apocrine glands	c) salivary gland
6) What type of pheromone	allows mothers to disting	uish their babies by odor?
a) releaser pheromone	b) signaler pheromone	c) modulator pheromone
7) Which of the following is respond to?	an example of a supernor	rmal releaser that humans
a) dressings	b) eye colour	c) smiling
8) What type of pheromones	s are most common in mi	ce?
a) primer pheromones	b) releaser pheromones	
9) Receiving hexadecanal in	men generally:	
a) increases aggression	b) decreases aggression	c) has no effect
10) Where has comparative a) in the field	psychology primarily stu	died animal behavior?
b) in the laboratory		
c) both in the field and la	boratory	

10. The second intermediate host of Diphyli	obothrium latum is
(a) Snails	(b) Fish
(c) Frogs	(d) Cyclops
11. Diagnostic stage of Plasmodium spp. in h	numan blood is
(a) Ring stage	(b) Sporozoites
(c) Merozoites	(d) Trophozoite
12. The diagnostic stage of Taenia spp. is	
(a) Blood in urine	(b) Egg in feces
(c) Egg in urine	(d) Cercariae in water
13. Nematodes are differentiated from other	worms by the following except
(a) Absent fragmentation	(b) Flat or flashy leaf-like worm
(c) Separate sexes	(d) cylindrical body
14. Which one of the parasites can be transc	nitted through contaminated vegetables?
(a) Enterobius vermicularis	(b) Taenia solium
(c) Schistosoma mansoni	(d) Diphyllobothrium latum
15. Auto-infection could be propagated by	
(a) Ascaris sp.	(b) Ancylostoma sp.
(c) Taenia saginata	(d) none of the above
B- Discuss with labelled diagrams the	life cycle of Toxoplasma gondii?
	(10 Marks)
C- Compare between Taenia saginata	and Taenia solium? (7 Marks)
D- From your study, mention three	parasites transmitted to human through
contaminated fish?	(10 Marks)
E- Explore three protozoans cause di	arrhea to human, mention infective stage
habitat, and mode of infection?	(8 Marks)
Cood lively	Dr Sere S Abdal Hakaem

Assiut University Faculty of science Zoology Department



Final exam (summer semester) Course number: 324 Z (Protozoa & Parasitology) Time: 2 hours

(Total 50 marks) Answer the following question (illustrating your answer with labeled drawings whenever possible)

A- Select the single best answer for each of	the following (1 marks/each)
1. Infective stage of Heterophyes heterophyes is enc	ysted in
(a) Grasses	(b) Snails
(c) Sheep	(d) Fish
2. Platyhelminthes and Nematodes are different in	the following except
(a) Triploblastic	(b) Monocieous
(c) Digestive system	(d) Adhesive organs
3. Large trophzoite of Entamoeba histolytica feeds	on
(a) RBC and mucosa	(b) blood
(c) Digested food	(d) Mucosa in the colon
4. Infection with Trypanosoma cruzi occurs by	
(a) Contamination of wound with feces	(b) Blood transfusion
(c) Congenital transmission	(d) All the above
5. Giardia lamblia cyst contains	
(a) 2 nuclei	(b) 4 nuclei
(c) 6 nuclei	(d) 8 nuclei
6. Infective stage of Entamoeba gingivalis is	
(a) Trophozoite	(b) cyst
(c) quadrinucleated cyst	(d) tachyzoites
7. Which of the following protozoans is transmitted	primarily by the motile trophozoite form?
(a) Balantidium coli	(b) Entamoeba histolytica
(c) Giardia lamblia	(d) Trichomonas vaginalis
8. The intermediate host of Fasciola gigantica is	
(a) Cattle	(b) Pigs
(c) Cyclops	(d) Snails
9. Consumption of uncooked fish is likely to cause	which of the following helminthic disease
(a) Diphyllobothrium latum	(b) Taenia saginate
(a) Tanada harakin	(d) Echinococcus granulosus

9. Nematodes are differentiated from of	her worms by the following except
(a) Absent fragmentation	(b) cylindrical body
(c) Flat or flashy leaf-like worm	(d) separate sexes
10. Parasites that are to a given host, bu	t in an abnormal situation are called
(a) Obligatory parasites	(b) Erratic parasites
(c) Incidental parasites	(d) Permanent parasites
B- Fill in the blank	(8 marks)
1. Balantidium coli lives in	and they may reproducing
by	
2. Infection with Diphyllobothi	ium latum is due tobut infection
with Taenia saginata is due	to
3. The association between	two organisms may be symbiosis, which
meansa	nd Parasitism, which means
	rmicularis is due to
C- Differences between Schistoson	ma mansoni and Schistosoma haematobium in
the following items (habitat, inter-	mediate host, infective stage, and eggs)?
1 1000	(10 Marks)
D- Write briefly (with drawing) or	detailed life cycle of one parasite transmitted
to human through consumption of	
E- Discuss the sexual cycle of Plas	modium sp. in stomach of mosquito?
attalise there are recovery \$500.	(7 Marks)
F- Write short note on reproducti	ve system in Platyhelminthes? (8 Marks)
Good luck	
Dr. Sara S. Abdel-Hakeem	(a) Ascarie-lumbercondes

Assiut University Faculty of science Zoology and Entomology Department



Final exam. (Summer course)
Course number: 321Z
(Parasitology)
Time: 2 hours

2025

Answer the following question (illustrating your answer with labeled drawings whenever possible)

A- Choose the one correct answer:	(1 mark/ each)
1. Metacercaria is an infective stage in the following	parasites except
(a) Fásciola gigantica	(b) Heterophyes heterophyes
(c) Fasciola hepatica	(d) Diphyllobothrium latum
2. The digestive system is absent in	
(a) Taenia saginate	(b) Enterobius vermicularis
(c) Schistosoma mansoni	(d) Wuchereria bancrofti
3. All the following protozoa live in the intestine exc	ept
(a) Trichomonas hominis	(b) Plasmodium spp
(c) Entamoeba coli.	(d) Balantidium coli
4. Infective stage of Ascaris lumbercoides is	
(a) filariform larvae	(b) Embryonated egg
(c) Metacercaria	(d) Cyst
5. The diagnostic stage of Schistosoma haematobium	is a supplied that you had a supplied to
(a) Egg in the blood	(b) Egg in feces
(c) Egg in urine	(d) Cercariae in water
6. All the following parasites lead to bloody diarrher	a except
(a) Schistosoma mansoni	(b) Schistosoma haematobium
(c) Entamoeba histolytica	(d) Trypanosoma spp.
7. Contaminated green salad causes infection with	
(a) Acanthamoeba sp	(b) Plasmodium spp.
(c) Ascaris lumbercoides	(d) Wuchereria bancrofti
8. Consumption of uncooked fish is likely to cause w	hich of the following helminthic disease
(a) Diphyllobothrium latum	(b) Taenia saginate
(c) Fasciola hepatica	(d) Echinococcus granulosus

10	ik sac	o) Chorion	c) Ammon	u) Ectou	ierm	
QII:	Answer the	following	(4 only)		(20 ma	rks)
1-	How The process of with drawing.	f oogenesis occu	rs in the cells of the ge	rminal epithelium (of the ovar	y? Explair
2-	Write the Structur	e of a mammalia	an sperm and it's funct	ions with drawing.	(5 M)	
3-	Compare between		ge in Amphioxus and c ation in toad and chick		ohioxus	(2.5 M) (2.5 M)
4-	Explain		genetic movements du nce of gastrulation?	ring gastrulation.		(2.5 M) (2.5 M)

hich of the following structures arises from splanchnopleure?

GOOD LUCK

B- The types of eggs based on yolk quantity and give examples.

A- The function of Ooplasm of the ovum

(2.5 M)

(2.5 M)

5- Write about

Prof. Dr. Mona M. Atia

ne cells produce	ed after repeated mitotic di	vision of primordial ger	rm cells are	e known as:
Frimary spermato	cytes b) Spermatogonia	c) Secondary sperm	atocytes	d) Spermatids
20. The mesodermal	somites in Amphioxus divid	de into:		
	blast b) Epimere and hyp		e and notoc	hord d) Macromeres
21. Which cavity for	ms inside the mesodermal e	pimere?		
a) Splanchnocoel	b) Myocoel	c) Blastocoel	d) Arch	enteron
22. The type of cleav	age in toad eggs is:			
a) Holoblastic equal	b) Meroblastic discoi	dal c) Holoblastic u	nequal	d) Superficial
23. The gray crescen	t appears in the region that	will become the:		
a) Ventral side	b) Animal pole	c) Dorsal lip of the blas	stopore	d) Notochord
24. What is the signi	ficance of the gray crescent	in toad development?		
a) It prevents cleavage		b) It initiates neura	l developm	ent
	normal development	d) It causes pigme	ntation	
25. The roof of the b	lastocoele in the toad is for	med by:		
a) Macromeres		c) Micromeres	d) Gastr	rula
26. The cavity forme	ed during invagination in to	ad gastrulation is:		
a) Blastocoel	b) Neurenteric canal	c) Gastrocoel or arcl	henteron	d) Yolk sac
27. The primitive gro	oove lies:			
a) Along the primitive		ural folds c) In the	area opaca	d) In the yolk sac
20 11/1/1-1	nal region is devoid of meso	dorm calle initially?		
		c) Somites		d) Epiblast
a) Proamnion	b) Area opaca	c) Somites		a, aproxide
29. The notochord in	n chick embryo forms from	cells of:		
a) Hensen's node	b) Area opaca	c) Neural tu	ube	d) Hypoblast

which enzyme neips sperm penetrate the corona radiata:
a) Hyaluronidase b) Trypsin-like enzyme c) Acid phosphatase d) Corona penetrating enzyme
10. What is the enzyme presumed to be located on the inner acrosomal membrane that helps sperm penetrate the zona pellucida?
a) Hyaluronidase b) Corona penetrating enzyme c) Trypsin-like enzyme or acrosin d) Amylase
a) Hyanti onitiase b) Corona penetrating enzyme c) Hypsin-like enzyme or acrosin d) ramymae
11 W/h-4!- n-h-m-amay?
11. What is polyspermy?
a) The entry of only one sperm into the egg b) The entry of more than one sperm into the egg b) The inch like of record to fortilize an agg
c) The production of multiple eggs d) The inability of sperm to fertilize an egg
At the gray croscent appears in the region that will become the:
12. What type of cleavage occurs in Amphioxus?
a) Meroblastic unequal b) Holoblastic equal c) Meroblastic discoidal d) Superficial
13. What structure does the blastocoele form inside the blastula of Amphioxus?
a) Fluid-filled cavity b) Archenteron c) Notochord d) Neural groove
14. The early blastula of Amphioxus is also known as:
a) Coeloblastula b) Amphiblastula c) Discoblastula d) Blastocyst
15. During gastrulation in Amphioxus, the invagination starts at which pole?
a) Animal pole b) Lateral side c) Vegetal pole d) Posterior side
16. Which structure forms from the ectodermal thickening in Amphioxus?
a) Notochord b) Mesoderm c) Neural plate d) Archenteron
17. The cavity inside the neural tube is called:
a) Blastocoel b) Neurocoel c) Gastrocoel d) Somite
18. In Amphioxus, the mesoderm arises from:
a) Ectoderm b) Endodermal roof of archenteron c) Floor of blastocoele d) Epiblast
a) District of District of the State of the



Assiut University Faculty of Science Zoology & Entomology Department



Final Exam Principle of Embryology الإمتحان في 4 ورقات 50 marks



Time: 2 hour Level: three Course Code: 334Z Date: 31/8/2025

	est single correct an		(30 marks; each point 1 M	
a) Asswed - 1	principal ways egg ce	lls and sperm cells are brou	ght together?	
y shaar and Sex	iai l) Internal and External feri	tilization	
c) Mitotic and meio	tic	d) Oviparous and viviparou		
2. External fertiliza	tion is almost limited to	which type of animals?		
a) Terrestrial anima	b) Aquatic a	nimals c) Aerial anin	nals d) Arboreal animals	
3. Which animals ty	nically nonform	g galassa et Maradas da au	William	
a) Nearly all aquatic	pically perform interna	Il fertilization?		
c) Most terrestrial a	invertebrates	b) Most fishes		
o) most terrestriar a	nimais	d) Many amphibians		
4. Animals where fer	tilized eggs pass outsid	e the body to complete their		
a) Viviparous	b) Ovoviviparous	o the body to complete their		
	,parous	c) Oviparous	d) Parthenogenetic	
5. Mammals, where li	ving young develop fro	m eggs retained within the		
a) Oviparous	b) Ovoviviparous	om eggs retained within the mother's body, are know		
	AVE MINERAL MARKET	c) Viviparous	d) Parthenogenetic	
6. In ovoviviparous an	imals, how does the de	veloping young receive nour	dala da	
a) From the mother's	bloodstream	h) From nutriant mate	rishment?	
c) From external food sources		b) From nutrient materials stored in the eggsd) From the male parent		
7. Which layer of the n	nammalian egg is non-c	alle Lea		
) Plasma membrane				
	b) Corona radiata	c) Zona pellucida	d) Cumulus oophorus	
, What is the first enzy	me released by sperm	to penetrate the cumulus ce	lla of the	
Acrosin b) Tryp	sin-like enzyme c)	Corona penetrating		
	,	Corona penetrating enzyme	e (CPE) d) Hyaluronidase	